

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 4, 2002, 16:09:06 ; Search time 165.17 Seconds
(without alignments)
147.946 Million cell updates/sec

Title: US-09-052-089a-3
Perfect score: 1066
Sequence: 1 RTIINKLFEDLAQEENYLD.....DLQADKEIMSKKLTMLQ 220

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 747574 seqs, 111073796 residues
Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: A.GeneSeq_032802.*
2: /SID55/gcgdata/geneseq/geneseq-emb1/AA1980.DAT.*
3: /SID55/gcgdata/geneseq/geneseq-emb1/AA1981.DAT.*
4: /SID55/gcgdata/geneseq/geneseq-emb1/AA1982.DAT.*
5: /SID55/gcgdata/geneseq/geneseq-emb1/AA1983.DAT.*
6: /SID55/gcgdata/geneseq/geneseq-emb1/AA1984.DAT.*
7: /SID55/gcgdata/geneseq/geneseq-emb1/AA1985.DAT.*
8: /SID55/gcgdata/geneseq/geneseq-emb1/AA1987.DAT.*
9: /SID55/gcgdata/geneseq/geneseq-emb1/AA1988.DAT.*
10: /SID55/gcgdata/geneseq/geneseq-emb1/AA1989.DAT.*
11: /SID55/gcgdata/geneseq/geneseq-emb1/AA1990.DAT.*
12: /SID55/gcgdata/geneseq/geneseq-emb1/AA1991.DAT.*
13: /SID55/gcgdata/geneseq/geneseq-emb1/AA1992.DAT.*
14: /SID55/gcgdata/geneseq/geneseq-emb1/AA1993.DAT.*
15: /SID55/gcgdata/geneseq/geneseq-emb1/AA1994.DAT.*
16: /SID55/gcgdata/geneseq/geneseq-emb1/AA1995.DAT.*
17: /SID55/gcgdata/geneseq/geneseq-emb1/AA1996.DAT.*
18: /SID55/gcgdata/geneseq/geneseq-emb1/AA1997.DAT.*
19: /SID55/gcgdata/geneseq/geneseq-emb1/AA1998.DAT.*
20: /SID55/gcgdata/geneseq/geneseq-emb1/AA1999.DAT.*
21: /SID55/gcgdata/geneseq/geneseq-emb1/AA2000.DAT.*
22: /SID55/gcgdata/geneseq/geneseq-emb1/AA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1046	98.1	469	19	AAW37881
2	1046	98.1	469	20	AAW30149
3	1068	15.8	962	20	AAI31646
4	167.5	15.7	1017	22	AAE02246
5	167	15.7	484	22	AAW78985
6	167	15.7	533	22	AAW79969
7	166.5	15.6	875	22	AAE02245
8	166.5	15.6	878	22	AAE02245
9	164	15.4	1374	22	AAE69070
10	161	15.1	1325	18	AAW19540
11	161	15.1	1325	20	AAW94391

12	156	14.6	2482	16	AAE72826	Human mitotin. Ho
13	156	14.6	2482	17	AAW23996	Human mitotin amin
14	156	14.6	3248	19	AAE99795	Kinetochores protei
15	155	14.5	455	22	ABB61289	Drosophila melanog
16	154.5	14.5	808	22	ABG05140	Novel human diagno
17	154	14.4	1177	22	AAE96721	Putative P. abyssal
18	153.5	14.4	1456	22	ABE58673	Drosophila melanog
19	152	14.3	1489	22	ABE59948	Drosophila melanog
20	152	14.3	1975	22	ABB62094	Drosophila melanog
21	152	14.3	2067	22	ABB71125	Drosophila melanog
22	151.5	14.2	463	22	ABG03671	Novel human diagno
23	151.5	14.2	753	21	AAE08316	A human M-phase ph
24	151.5	14.2	1780	21	AAE08681	Human polyphosphat
25	151.5	14.2	1788	22	AAW40467	Human polyphosphat
26	151	14.2	561	19	AAE63043	Streptococcus uber
27	151	14.2	721	21	AAE21227	Protein encoded by
28	150	14.1	990	22	AAW78520	Human protein SEQ
29	149.5	14.0	1761	20	AAW15457	Human laminin beta
30	149	14.0	359	21	AAE29659	Human membrane-ass
31	148.5	13.9	963	22	AAW78880	Human protein SEQ
32	148.5	13.9	979	22	AAW79864	Human protein SEQ
33	147.5	13.8	2056	22	ABE59344	Drosophila melanog
34	147.5	13.8	2633	22	ABG06505	Novel human diagno
35	147.5	13.8	2663	22	AAW39097	Human polyphosphat
36	147.5	13.8	2688	22	AAW40883	Human polyphosphat
37	146	13.7	746	21	AAE46982	Arabidopsis thalia
38	146	13.7	788	21	AAE46981	Arabidopsis thalia
39	146	13.7	931	22	AAW79504	Novel human diagno
40	145.5	13.6	1851	22	ABG01723	Novel human diagno
41	145.5	13.6	1960	22	AAW78854	Human protein SEQ
42	145.5	13.6	2143	22	ABG01716	Novel human diagno
43	145	13.6	1879	22	AAW25750	Human protein sequ
44	144.5	13.6	534	19	AAW46823	Amino acid sequenc
45	144.5	13.6	687	19	AAW41586	Truncated restlin p

ALIGNMENTS

RESULT	1	
AAW37881	AAW37881 standard; Protein; 469 AA.	
XX	XX	
AC	AAW37881;	
XX	XX	
DT	28-AUG-1998 (first entry)	
XX	XX	
DE	BRCA1 modulator protein 091-21A31.	
XX	XX	
KW	BRCA1 modulator protein; 091-21A31; breast cancer antigen 1;	
KW	tumour suppressor protein; diagnosis; therapy; human.	
XX	XX	
OS	Homo sapiens.	
XX	XX	
FH	Key	Location/Qualifiers
FT	Domain	3..54
FT	Domain	/note="zinc finger motif"
FT	Domain	229..255
FT	Domain	/note="leucine zipper motif"
PN	XX	
PD	WO9810066-A1.	
XX	XX	
PD	12-MAR-1998.	
XX	XX	
PF	06-AUG-1997;	97WO-US13944.
XX	XX	
PR	04-SEP-1996;	96US-0025601.
XX	XX	
PA	(ONIX-) ONYX PHARM INC.	
XX	XX	
PI	Ligenfelter C, Polakis P, Rubinfield B, Vuong TT;	
XX	XX	
DR	WPI; 1998-193616/17.	

DR N-PSDB; AAV29062.
XX Breast cancer antigen 1 modulator protein - useful for diagnosing
PT diseases involving unwanted cell growth, e.g. breast cancer, and for
PT producing therapeutics for treatment of such diseases
XX
PS Example 1; Fig 1; 73pp; English.
XX
CC This polypeptide comprises a 53 kDa BRCA1 modulator protein that
CC binds to the tumour suppressor gene product BRCA1, and which is
CC characterised by a zinc finger domain and a leucine zipper motif.
CC Its amino acid sequence was deduced from the nucleotide sequence
CC of a cDNA clone (see AAV29062), designated 091-21A31 (ATCC 98141),
CC isolated from a HeLa cell cDNA library using a yeast two-hybrid
CC assay. 3 cDNA clones (see also AAV29063-64) coding for BRCA1
CC modulator proteins (see AAV37881-83) have been characterised. Vectors
CC and host cells comprising the isolated nucleic acid sequences are
CC claimed, as well as a process for producing BRCA1 modulator protein
CC by culturing these host cells. BRCA1 modulator proteins and nucleic
CC acids can be used to diagnose diseases involving unwanted cell
CC growth, e.g. breast cancer, and to identify compounds that alter
CC BRCA1 interaction with BRCA1 modulators for the treatment of such
CC diseases.
XX
SQ Sequence 469 AA;
Query Match 98.1%; Score 1046; DB 19; Length 469;
Best Local Similarity 98.6%; Pred. No. 7.1e-79;
Matches 217; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 RTIINKLFFDLAEEENVLDREFLKNELNDVRAQLSOKDKERPSQVITDRLPTLEERN 60
Db 56 rtiinklffdlageeenyldeeflkneidnvraqisgdkkexidsqvildrlrtdleern 115
QY 61 ATVVSLOALKAEMLCSTLKKQMYLEQODETKQAQEEGRLSKKTMEQITELLQS 120
Db 116 atvvs1gqalgaemlcstlkkqmyleqqdetkqaqeearrlrskmktmeqie11l1qs 175
QY 121 QLPVEEEMIRMGVGSQAVEDOLAVYCVSLKKEYENLKARASGEVADKLKDLFSSRSK 180
Db 176 qrpveeemirmgvgqsavvedolavycvslkkeyenlkearagsgevadklrkdlfssrsk 235
QY 181 LQTVYSELDOAKLELKSQKDLQSDAKREIMSLKKRLTMQ 220
Db 236 lqtvyselidgaktelksaqkdlgsadkeimslkkrltm1q 275
RESULT 2
ID AAV30149 standard; Protein; 469 AA.
XX
AC AAV30149;
XX
DT 27-OCT-1999 (first entry)
XX
DE Amino acid sequence of a BRCA1 modulator protein.
XX
KM Modulator protein; BRCA1; tumour suppressor protein; breast cancer;
KM ovarian cancer; cell growth; cell proliferation.
XX
OS Homo sapiens.
XX
FH Key location/Qualifiers
FT Region 3..32 /note= "zinc finger motif"
FT Region 230..255 /note= "leucine zipper motif"
FT Region 230..255 /note= "leucine zipper motif"
XX
PN US5948643-A.
XX
OS
PD 07-SEP-1999.
XX

PE 13-AUG-1997; 97US-0968751.
XX
PR 13-AUG-1997; 97US-0968751.
XX
PA (ONYX-) ONYX PHARM INC.
XX
PI Lingenfelter C, Polakis PG, Rubinfield B, Vuong TT;
XX
DR WPI: 1999-517952/43.
DR N-PSDB; AAX86754.
XX
PT Modulator proteins that bind to and modulate the activity of the
PT BRCA1 tumour suppressor gene product, useful for the treatment of
PT ovarian and breast cancer
XX
PS Example 1; Fig 1; 35pp; English.
XX
CC The present sequence represents a modulator protein, that binds to and
CC modulate the activity of the BRCA1 gene product (BRCA1). The BRCA1
CC protein has been characterized as a tumour suppressor protein.
CC Alterations in the amino acid sequence of BRCA1 causes breast and ovarian
CC cancers by removing the controls on cell growth and proliferation.
CC Research has shown that different regions on the BRCA1 molecule have
CC different effects on cell growth and tumour suppression (e.g. full length
CC truncated BRCA1 has no effect on breast cancer cell growth but will
CC inhibit ovarian cancer cell growth). It has been suggested that different
CC host cell factors (e.g. proteins) interact with different regions of the
CC BRCA1 to control its function. The identification of these proteins
CC (e.g. BRCA1MP) will facilitate the development of novel diagnostic
CC methods and new therapeutics for identifying and treating cancers caused
CC by changes in the expression or activity of BRCA1.
XX
SQ Sequence 469 AA;
Query Match 98.1%; Score 1046; DB 20; Length 469;
Best Local Similarity 98.6%; Pred. No. 7.1e-79;
Matches 217; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 RTIINKLFFDLAEEENVLDREFLKNELNDVRAQLSOKDKERPSQVITDRLPTLEERN 60
Db 56 rtiinklffdlageeenyldeeflkneidnvraqisgdkkexidsqvildrlrtdleern 115
QY 61 ATVVSLOALKAEMLCSTLKKQMYLEQODETKQAQEEGRLSKKTMEQITELLQS 120
Db 116 atvvs1gqalgaemlcstlkkqmyleqqdetkqaqeearrlrskmktmeqie11l1qs 175
QY 121 QLPVEEEMIRMGVGSQAVEDOLAVYCVSLKKEYENLKARASGEVADKLKDLFSSRSK 180
Db 176 qrpveeemirmgvgqsavvedolavycvslkkeyenlkearagsgevadklrkdlfssrsk 235
QY 181 LQTVYSELDOAKLELKSQKDLQSDAKREIMSLKKRLTMQ 220
Db 236 lqtvyselidgaktelksaqkdlgsadkeimslkkrltm1q 275
RESULT 3
ID AAV31646 standard; Protein; 962 AA.
XX
AC AAV31646;
XX
DT 02-NOV-1999 (first entry)
XX
DE Human transport-associated protein-8 (TRANP-8).
XX
KM Transport-associated protein; TRANP; nuclear pore; nuclear transport;
KM vesicle trafficking; cancer; cystic fibrosis; multidrug resistance;
KM hypercholesterolaemia; diagnosis; treatment.
XX
OS Homo sapiens.
XX
FH Key location/Qualifiers

FT Modified-site 18 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 34 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 74 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 81 /note- "O-phosphorylated by tyrosine kinase"
FT Modified-site 91 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 101 /note- "N-glycosylated"
FT Modified-site 123 /note- "N-glycosylated"
FT Modified-site 129 /note- "N-glycosylated"
FT Modified-site 243 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 336 /note- "N-glycosylated"
FT Modified-site 410 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 451 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 453 /note- "N-glycosylated"
FT Modified-site 585 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 631 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 632 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 717 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 734 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 758 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 780 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 844 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 882 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 890 /note- "N-glycosylated"
FT Modified-site 902 /note- "O-phosphorylated by casein kinase II"
FT Modified-site 902 /note- "O-phosphorylated by casein kinase II"
XX MO99A1373-A2.
XX 19-AUG-1999.
XX 05-FEB-1999; 99WO-US02527.
XX 11-FEB-1998; 98US-0021764.
XX (INCY-) INCYTE PHARM INC.
XX Au-Young J, Bandman O, Baughn MR, Corley NC, Guegler KJ;
PI Hillman JL, Lal P, Yue H;
XX WPI: 1999-508646/42.
XX N-PSDB: AA211738.
XX
XX Human TRAMP coding sequences, used to treat transport disorders and
XX cancer
XX
XX Claim 1; Page 74-77; 87pp: English.
XX
XX This sequence represents human transport-associated protein-8 (TRAMP-8).
XX The DNA sequence was first identified in a human colon tissue
XX cDNA library. The full-length cDNA was derived from a series of

CC overlapping and/or extended cDNA sequences and is a consensus.
CC TRAMP-1 to 9 (AA031639-Y31647) are a novel group of proteins with
CC chemical and structural homology that are involved in molecular
CC transport. Various disorders are associated with defects in the transport
CC of molecules, either intracellularly or to the extracellular
CC environment. Examples of such disorders include cystic fibrosis,
CC multidrug resistance, hypercholesterolaemia and certain forms of diabetes
CC mellitus. Defective nuclear transport may play a role in cancer. For
CC example, the BRCA1 protein, associated with familial breast cancer, is
CC normally imported into the nucleus via nuclear pore complexes, but is
CC aberrantly located in the cytoplasm in breast cancer cells. In other
CC cancers, cells can secrete excessive amounts of hormones e.g. cancers of
CC the adrenal medulla can secrete excessive amounts of adrenaline and
CC noradrenaline, leading to hypertension. TRAMP is expressed in cancer
CC cells, and transport disorders result from either excessive or
CC insufficient molecular transport. Anti-TRAMP antibodies and nucleic acids
CC encoding TRAMP can be used as diagnostic tools for such disorders. TRAMP
CC antagonists can be used to treat or prevent a cancer associated with
CC increased TRAMP expression. Anti-TRAMP antibodies can be used directly,
CC as an antagonist or as a targeting mechanism for drugs. Alternatively,
CC a TRAMP antisense nucleotide can be used to treat cancers. A TRAMP
CC agonist or expression vector may be used to treat a disorder caused by
CC reduced transport of biologically active molecules.
XX
XX Sequence 962 AA:
SO
Query Match 15.8%; Score 168; DB 20; Length 962;
Best Local Similarity 20.2%; Pred. No. 1.5e-05;
Matches 65; Conservative 62; Mismatches 85; Indels 110; Gaps 7;
QY 3 IINKLFDLQGEENVLDREFIKELNVRAQLSOKKEREKRDQVILIDTIRPLEERNAT 62
DB 608 lfdnerfkivkelegvikaayssedkveevkctlegndn--lvthykmmrdqdg 665
QY 63 VSLQALG---KAEMICSTLKKRMKRYLEQODE-----TKQAO-- 98
DB 666 leeltrgvstlkqneqlqavtqvsgiqghkqynllkqlgkdnqhgysysegqnm 725
QY 99 ----EENGRLRSKMKTKTEQLELLQSQLPEVEEMIRPMGVGQSA----- 138
DB 726 gldgeelgrlreeleelkrqellqsgltexkslenmksqstgtnegsalsardse 785
QY 139 -VEQLAVYCVSLK----- 150
DB 786 gvaelkqelatlksqnsqveitkltqekqellqkteafaksvevgetetiaakttd 845
QY 151 -----KEYENLKEARRASGEVADKLKDLFFSSRSKLTQTVYSELDOAKLELSAQKD 201
DB 846 vegralsalqetkelkeikalseraikalqedsnstaialqtekdkieltdske 905
QY 202 -----LQSADEKIEIMLKKKL 216
DB 906 qdallvlladdqdkilslnkl 927
RESULT 4
AAE02246.
ID AAE02246 standard; Protein; 1017 AA.
XX
XX AAE02246;
XX
XX 31-JUL-2001 (first entry)
XX
XX Domestic mite Bt11 allergen polymorphic variant.
XX
XX DE Mite; immunogenic protein; Bt allergen; therapy: atopic dermatitis;
XX KW immediate hypersensitivity; systemic anaphylaxis; allergic rhinitis;
XX KM asthma; anti-allergic; anti-inflammatory; immunosuppressive.
XX
XX Blomia tropicalis.
XX
XX OS
XX
XX Key location/Qualifiers

FT MISC-difference 41 /note- "Encoded by TAG"
FT MISC-difference 42 /note- "Encoded by TAG"
FT MISC-difference 56 /note- "Encoded by TAG"
FT MISC-difference 71 /note- "Encoded by TGA"
FT MISC-difference 76 /note- "Encoded by TAA"
FT MISC-difference 80 /note- "Encoded by TAG"
FT MISC-difference 86 /note- "Encoded by TGA"
FT MISC-difference 965 /note- "Encoded by TAA"
FT MISC-difference 998 /note- "Encoded by TAA"
FT MISC-difference 998 /note- "Encoded by TAA"
PN WO200130817-A1.
XX 03-MAY-2001.
XX 10-OCT-2000; 2000WO-AU01227.
XX 26-OCT-1999; 99SG-0005313.
XX 18-JUL-2000; 2000AU-0008842.
XX 18-JUL-2000; 2000AU-0008844.
XX 18-JUL-2000; 2000AU-0008845.
XX (UYST-) UNIV SINGAPORE NAT.
XX Chua KY, Cheong N, Lee BW;
XX WPI: 2001-308609/32.
XX N-PSDB: AAD06245.
XX Novel immunogenic protein derived from house mite, *Blomia tropicalis*
XX useful for treating and diagnosing conditions involving induction of
XX immuneresponse to mite, such as allergic asthma, atopic dermatitis,
XX rhinitis
XX Claim 6; Fig 7; 230pp; English.
XX The present invention relates to immunogenic proteins, referred as Bt
XX allergen, is derived from domestic mite, *Blomia tropicalis*. The specific
XX Bt allergens of the invention includes Bt11, Bt10, Bt5 and BtA2. The
XX immunogenic protein is useful for preventing, reducing or ameliorating
XX *Blomia tropicalis* hypersensitivity condition, such as atopic dermatitis,
XX asthma and for modulating an immune response directed to Bt allergen in
XX a subject. The Bt allergens are also useful for detecting antibody
XX directed to all or a part of Bt allergen in a biological sample from a
XX subject. Antibodies to Bt allergens are also used as therapeutic or
XX diagnostic agents, to screen Bt immunoassays and as antagonists to
XX inhibit Bt activity under circumstances where temporary hypersensitivity
XX inhibition is required. The present sequence is a protein encoded
XX by Bt11 polymorphic variant.
XX Sequence 1017 AA:
SQ
Query Match 15.7%; Score 167.5; DB 22; Length 1017;
Best Local Similarity 22.8%; Pred. No. 1,7e-05;
Matches 64; Conservative 60; Mismatches 74; Indels 83; Gaps 11;
QY 11 LAQEEENVLD--REFLNKELDN---VRAQLSQ-----KDKERKDS-----QV 47
DB 293 lsgsenselikevhey-kisdanhnkylqagledtrhrledeekrksienhahltv 351
QY 48 IIDLRLPLERNTATVSLQALGKA----- 73
DB 352 elslkvgleesearlelqrqltkangdaaswkskyeaelqahvdevelrrkmaqkis 411

QY 74 ---EML-----CSTLKKOMKYLEQOOD----ETKQAEFAGRLRSKMTTEQIILLQS 120
DB 412 eyeegleallnkcsalekqkariqseeevlmdlekatahgalckrvsgleklnldks 471
QY 121 QLPEVEEMIRDMGVGQSAVEQLAVYCVSLKK---EYENLKERRASGEVADKLRRDLFSS 177
DB 472 kleeavml-----eqtqkdlrvkialdqlgklyeyeklrqkalearenkkladdiaa 525
QY 178 RSKLOTVYSELDQAKLELK---SAOKDQASADKEIMSLKK 215
DB 526 ksglndanrrlnegelelkrleeneelaaykeaeltrqg 566
RESULT 5
AAW78985
ID AAW78985 standard; Protein: 484 AA.
XX AAW78985;
XX 06-NOV-2001 (first entry)
XX Human protein SEQ ID NO 1647.
XX Human; cytokine; cell proliferation; cell differentiation; gene therapy;
XX vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
XX tissue growth factor; immunomodulatory; cancer; leukaemia;
XX nervous system disorder; arthritis; inflammation.
XX Homo sapiens.
XX WO200157190-A2.
XX 09-AUG-2001.
XX 05-FEB-2001; 2001WO-US04098.
XX 03-FEB-2000; 2000US-0496914.
XX 27-APR-2000; 2000US-0560875.
XX 20-JUN-2000; 2000US-0598075.
XX 19-JUL-2000; 2000US-0620325.
XX 01-SEP-2000; 2000US-0654936.
XX 15-SEP-2000; 2000US-0663561.
XX 20-OCT-2000; 2000US-0693325.
XX 30-NOV-2000; 2000US-0728422.
XX (HYSE-) HYSEQ INC.
XX Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;
XX Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
XX Xue AJ, Yang Y, Wejrtman T, Goodrich R;
XX WPI: 2001-476283/51.
XX N-PSDB: AAK52118.
XX Nucleic acids encoding polypeptides with cytokine-like activities,
XX useful in diagnosis and gene therapy -
XX Claim 20; Page 3984-3985; 6221pp; English.
XX The invention relates to polynucleotides (AAK51456-AAK53435) and the
XX encoded polypeptides (AAW78323-AAW80302) that exhibit activity elating to
XX cytokine, cell proliferation or cell differentiation or which may induce
XX production of other cytokines in other cell populations. The
XX polynucleotides and polypeptides are useful in gene therapy, vaccines or
XX peptide therapy. The polypeptides have various cytokine-like activities,
XX e.g. stem cell growth factor activity, haematopoiesis regulating
XX activity, tissue growth factor activity, immunomodulatory activity and
XX activity/inhbin activity and may be useful in the diagnosis and/or
XX treatment of cancer, leukaemia, nervous system disorders, arthritis and
XX inflammation.
XX Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
XX (AAW80020) are omitted from the relevant pages from the sequence listing

CC were missing at the time of publication.

SQ Sequence 484 AA;

Query Match	15.7%;	Score 167;	DB 22;	Length 484;
Best Local Similarity	24.2%;	Pred. No. 7.6e-06;		
Matches	58;	Conservative	50;	Mismatches 94;
			Indels	38;
			Gaps	7;

Qy	6	KLFDPLAEEENFVLDREPLKNELDNVRNLOSKOKKEREKDSQVYIDTLRDTLEERNATYVS	65
	27	kdmldvkerknvnlqk-----kielldqldkqemssllkervysklsqtdntntalt	81
Db	66	LOQALGKAEMLCSTLKQOMKRYLEQOQDPTKQAOEAGRLSRMKMTWEOITELLOSQLEPV	122
Qy	82	leelaakeertlerlk-----eqdrderakeeindnykdkldkdkvslilqgdlssek	133
Db	126	EEMIRDMGVGQS-----AVEOLAVYCV---SLKREYENLKERRAS	167
Qy	136	easlldlkehasslssagllkkdsrllktlslaleqkkecllkmegskllkhaaealear-as	199
Db	164	GEVADK---LKKDLESSSKSLQTYVSELDQAKLELKSQKQDLSQSDKRTMSLKKTLTMQ	222
Qy	195	pemsdrllghlerelrtlyrdesksaqaeavdrilleikerevsnkndkkliael-eslterq	257

RESULT 6
AAM70060

AC AAM79969;

DT 06-NOV-2001 (first entry)

DE Human protein SEQ ID NO 3615.

KM Human; cytokine; cell proliferation; cell differentiation; gene therapy
KM vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KM tissue growth factor; immunomodulatory; cancer; leukaemia;
KM nervous system disorder; arthritis; inflammation.

OS Homo sapiens.

PN W0200157190-A2.

PD 09-AUG-2001.

PF 05-FEB-2001; 2001WO-US04098.

PR	03-FEB-2000	2000US-05406914
PR	27-APR-2000	2000US-0560875
PR	20-JUN-2000	2000US-0538075
PR	19-JUL-2000	2000US-0620325
PR	01-SEP-2000	2000US-0645936
PR	15-SEP-2000	2000US-0663561
PR	20-OCT-2000	2000US-0633325
PR	30-NOV-2000	2000US-0728422

PA (HYSE-) HYSEQ INC.

PI Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y
PI Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW,
PI Xue AJ, Yang Y, Wejhrman T, Goodrich R,
XX
WPI: 2001-476283/51.
DR
N-PSDB: AAK53102.

PT Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy -

CC The invention relates to polynucleotides (AAK51456-AAK53435) and the

CC encoded polypeptides (AAM78323-AA80302), that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.

CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
CC (AAM80020) are omitted as the relevant pages from the sequence listing
CC were missing at the time of publication.

SQ Sequence 533 AA;

Query Match	15.7%	Score 167	DB 22	Length 533
Best Local Similarity	24.2%	Pred. No. 8.6e-06		
Matches 58; Conservative		Mismatches 94	Indels 38	Gaps 7

```

Oy      6 KLEFDLQEEENVLDREFLKNELDNVRAOLSQKDKERDSQVIIDTLRDITLEERNATVVS 65
      | : : : | | : : : : | | : | : : : : : : : : : : : : : : : : : :
Db      76 kamlvdkervknvlgk-----kienlgeglrdkkekqmslkerivsllqadtntdaltt 130

```

[illegible]

120 EEMIKDMGVGS-----AVEQLAVIC---SLKKEIENLKEARKKAS 163

```
QY 164 GEVAAR--LRKDLFSSRSKLQTVYSELDQAKLELKSQAQNDLQSAADKEIMSLKKLMLQ 2200
|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 244 pemsdrighereitrykdessagaevdrllleilkevenekndkkiael--eslsrq 302d
```

RESULT 7

ID AAE02245

AC AAE02245;

DT 31-JUL-2001 (first entry)

DE

KW Mite; immunogenic protein; Bt allergen; therapy; atopic dermatitis;

Blomla tropicalis.

PN WO200130817-A1

PD 03-MAY-2001.

PF 10-OCT-2000; 2000WO-AU01227.

PR 26-OCT-1999; 99SG-0005313
PR 18-JUL-2000; 2000AU-0008842
PR 18-JUL-2000; 2000AU-0008844
PR 18-JUL-2000; 2000AU-0008845

PA (UYSI-) UNIV SINGAPORE NAT.

PI Chua KY, Cheong N, Lee BW;

DR WPI; 2001-308609/32.

XX

PT Novel immunogenic protein derived from house mite, *Blomia tropicalis*

PT useful for treating and diagnosing conditions involving induction of
PT immuneresponse to mite, such as allergic asthma, atopic dermatitis,
PT rhinitis
XX
PS Disclosure: Page 162-166; 230pp; English.

XX The present invention relates to immunogenic proteins, referred to as Bt
CC allergens, derived from domestic mite (Blomia tropicalis). The specific
CC Bt allergens of the invention includes Btl1, Btl10, Bt5 and Bta2. The
CC immunogenic protein is useful for preventing, reducing or ameliorating
CC Blomia tropicalis hypersensitivity condition, such as atopic dermatitis,
CC immediate hypersensitivity, systemic anaphylaxis, allergic rhinitis or
CC asthma and for modulating an immune response directed to Bt allergen in
CC a subject. The Bt allergens are also useful for detecting antibody
CC directed to all or a part of Bt allergen in a biological sample from a
CC subject. Antibodies to Bt allergens are also used as therapeutic or
CC diagnostic agents, to screen Bt immunoassays and as antagonists to
CC inhibit Bt activity under circumstances where temporary hypersensitivity
CC inhibition is required. The present sequence is Btl1 allergen.

XX Sequence 875 AA;

Query Match 15.6%; Score 166.5; DB 22; Length 875;
Best Local Similarity 22.8%; Pred. No. 1.7e-05;
Matches 64; Conservative 60; Mismatches 74; Indels 83; Gaps 11;

OY 11 LAQEEENVLD--REFLKNELDN---VRAQLSQ-----KDKKRKRS-----QV 47
Db 204 lsgenseikeyhey-kislndanhlkqjagqledtrhrledeerksslenhantlev 262
OY 48 IIDTLRDTLEERNATVSLQALGKA----- 73
Db 263 elesikvgleesearleqltkangdaaswkyaaelgahvdeveelrrkmaqkis 322
OY 74 ---EML-----CSTLKKOMKYLEEQGD---ETKQAEERGRLSKKMTMEQIELLIQS 120
Db 323 eygeglea1lnkcsalekqkarlgsevevlmdlekatahagalekrvsqleklnldiks 382
OY 121 QLPVEEEMIRDMVGQSAVEOLAVYCVSLKK---EYENLKEARKASGEVADKLKRDLPSS 177
Db 303 kleeysml1-----eqgtkdlrvkiadlqklqheyeklrqgkealarenkkladdlaea 436
OY 178 RSKLTQVYSELDQAKLELK---SAQKDLQSADEKIMSLSKK 215
Db 437 ksqldahnrhrhgeieikrlenereeeaaaykeaeltrkq 477

RESULT 8

AAE02242
ID AAE02242 standard; Protein: 878 AA.

XX AAE02242;

XX 31-JUL-2001 (first entry)

DE Domestic mite Btl1 allergen #7.

KW Mite; immunogenic protein; Bt allergen; therapy; atopic dermatitis;
KW immediate hypersensitivity; systemic anaphylaxis; allergic rhinitis;
KW asthma; antiasthergic; antiinflammatory; immunosuppressive.

XX Blomia tropicalis.

XX WO200130817-A1.

PD 03-MAY-2001.

PF 10-OCT-2000; 2000WO-AU01227.

PR 26-OCT-1999; 99SG-0005313.

PR 18-JUL-2000; 2000AU-000842.

PR 18-JUL-2000; 2000AU-000844.

PR 18-JUL-2000; 2000AU-000845.

XX (UYSI-) UNIV SINGAPORE NAT.

DR WPI; 2001-308609/32.

XX N-PSDB; AAD06236.

PT Novel immunogenic protein derived from house mite, Blomia tropicalis
PT useful for treating and diagnosing conditions involving induction of
PT immuneresponse to mite, such as allergic asthma, atopic dermatitis,
PT rhinitis

PS Claim 4; Fig 3; 230pp; English.

XX The present invention relates to immunogenic proteins, referred as Bt
CC allergen, is derived from domestic mite, Blomia tropicalis. The specific
CC Bt allergens of the invention includes Btl1, Btl10, Bt5 and Bta2. The
CC immunogenic protein is useful for preventing, reducing or ameliorating
CC Blomia tropicalis hypersensitivity condition, such as atopic dermatitis,
CC immediate hypersensitivity, systemic anaphylaxis, allergic rhinitis or
CC asthma and for modulating an immune response directed to Bt allergen in
CC a subject. The Bt allergens are also useful for detecting antibody
CC directed to all or a part of Bt allergen in a biological sample from a
CC subject. Antibodies to Bt allergens are also used as therapeutic or
CC diagnostic agents, to screen Bt immunoassays and as antagonists to
CC inhibit Bt activity under circumstances where temporary hypersensitivity
CC inhibition is required. The present sequence is Btl1 allergen.

XX Sequence 878 AA;

Query Match 15.6%; Score 166.5; DB 22; Length 878;
Best Local Similarity 22.8%; Pred. No. 1.8e-05;
Matches 64; Conservative 60; Mismatches 74; Indels 83; Gaps 11;

OY 11 LAQEEENVLD--REFLKNELDN---VRAQLSQ-----KDKKRKRS-----QV 47
Db 207 lsgenseikeyhey-kislndanhlkqjagqledtrhrledeerksslenhantlev 265
OY 48 IIDTLRDTLEERNATVSLQALGKA----- 73
Db 266 elesikvgleesearleqltkangdaaswkyaaelgahvdeveelrrkmaqkis 325
OY 74 ---EML-----CSTLKKOMKYLEEQGD---ETKQAEERGRLSKKMTMEQIELLIQS 120
Db 326 eygeglea1lnkcsalekqkarlgsevevlmdlekatahagalekrvsqleklnldiks 385
OY 121 QLPVEEEMIRDMVGQSAVEOLAVYCVSLKK---EYENLKEARKASGEVADKLKRDLPSS 177
Db 386 kleeysml1-----eqgtkdlrvkiadlqklqheyeklrqgkealarenkkladdlaea 439
OY 178 RSKLTQVYSELDQAKLELK---SAQKDLQSADEKIMSLSKK 215
Db 440 ksqldahnrhrhgeieikrlenereeeaaaykeaeltrkq 480

RESULT 9

AAB69070
ID AAB69070 standard; Protein: 1374 AA.

XX AAB69070;

XX 19-APR-2001 (first entry)

DE Human male enhanced antigen-2 (MEA-2) protein sequence SEQ ID NO:2.

KW Human; male enhanced antigen-2; MEA-2; identification; spermatogenesis;
KW spermatogenesis disease; chromosome marker; pancreatic cancer.

XX Homo sapiens.

PN JP2000316580-A.
 XX
 PD 21-NOV-2000.
 XX
 PF 30-APR-1999; 99JP-0125196.
 XX
 PR 30-APR-1999; 99JP-0125196.
 XX
 PA (ITOH-) ITO HAM KK.
 XX
 DR WPI: 2001-128256/14.
 DR N-PSDB: AAF32308.
 XX
 PT A new protein, human male-enhanced antigen-2, useful for detecting
 PT spermatogenesis diseases -
 XX
 PS Claim 1; Page 12-15; 21pp; Japanese.
 XX
 CC The present sequence represents the human male enhanced antigen-2
 CC (MEA-2). The present invention also described an antibody specific for
 CC the MEA-2 protein. The antibody can be used for the identification of a
 CC gene causing diseases related to spermatogenesis. The MEA-2 nucleotide
 CC sequence is useful as a chromosome marker, and in the detection of
 CC pancreatic cancer.
 XX
 SQ Sequence 1374 AA;

Query Match 15.4%; Score 164; DB 22; Length 1374;
 Best Local Similarity 25.0%; Pred. No. 4.9e-05;
 Matches 60; Conservative 46; Mismatches 96; Indels 38; Gaps 7;

QY 13 QEEENVLDREFLKNELD-----NVRAQLSQDKERKRDQYITDLPRLTEERNATVYSL 66
 Db 1116 rehmsiletalakreadvqlnlgvgavlqrkeedrqmknlgvalgslekekevnsi 1175
 QY 67 QOALGKAEMLCSTLKKOMKYLEQOODETK-----QAOEEAGRLSKMKMTWE- 112
 Db 1176 keyaaakveaghnrrhfkaaslelsevkkelqgakehivqlqgeadqliregkhsgei 1235
 QY 113 ---QIEL-----LLQSQLEPEVEEMIRDMGVGQSAVEQQLAVYCVSLKKEYENLKARK 161
 Db 1236 aqfqaelaearaqqlilqkql---deqlskqpyvgngemenlkwevdqkereiqlkqql 1292
 QY 162 ASGEVADKLRLKDLFSSRSKLOTYVSELDOAKLELSAQKDLQSDAKELMSLKKKL-TMLQ 220
 Db 1293 lteggq---lkeleglqqlnlgvkselamedlsmtdkdkfmjgkvselknmktllq 1349

RESULT 10
 AAW19540
 ID AAW19540 standard; Protein: 1325 AA.
 XX
 AC AAW19540;
 XX
 DT 16-SEP-1997 (first entry)
 XX
 DE Male-enhanced antigen-2.
 XX
 KW Mouse; MEA-2; detecting mutation.
 XX
 OS Mus musculus domesticus.
 XX
 FT Key Location/Qualifiers
 FT Misc-difference 305..320
 FT /note= "Not shown in the specification"
 XX
 PN JF09121869-A.
 XX
 PD 13-MAY-1997.
 XX
 PF 07-NOV-1995; 95JP-0311638.
 XX

PR 07-NOV-1995; 95JP-0311638.
 XX
 PA (ITOH-) ITO HAM KK.
 XX
 DR WPI: 1997-314229/29.
 DR N-PSDB: AAT74034.
 XX
 PT Male-enhanced antigen Mea-2 gene - especially from mouse, useful for
 PT detecting mutation(s)
 XX
 PS Claim 8; Page 9-10; 13pp; Japanese.
 XX
 CC The present sequence represents male-enhanced antigen-2 (MEA-2), which
 CC has been derived from a domestic mouse. The polynucleotide encoding
 CC the protein can be used for the detection of mutations affecting the
 CC MEA-2 gene.
 XX
 SQ Sequence 1325 AA;

Query Match 15.1%; Score 161; DB 18; Length 1325;
 Best Local Similarity 23.1%; Pred. No. 8.4e-05;
 Matches 57; Conservative 48; Mismatches 90; Indels 52; Gaps 7;

QY 13 QEEENVLDREFLKNELD-----NVRAQLSQDKERKRDQYITDLPRLTEERNATVYSL 66
 Db 966 rehmsiletalakreadvqlnlgvgavlqrkeedrqmknlgvalgslekekevnsi 1025
 QY 67 QOALGKA-----EMICSTLKKOMKYLEQO---ODET 94
 Db 1026 kegnaaaieaghnrrhfkaatllelsevkkelqgakehivqlqgeadqlqdqkhsgei 1085
 QY 95 KOQEEAGRLSKMKMTMEQLLELLQSQLEPEVEEMIRDMGVGQSAVEQQLAVYCVSLKKEYE 154
 Db 1086 aqfqaelaearaqqlilqkql---deqmsqpyvgngemenlkwevdqkereiql 1135
 QY 155 NLKEARKASGEVADKLRLKDLFSSRSKLOTYVSELDOAKLELSAQKDLQSDAKELMSLKK 214
 Db 1136 slkqqldlteggq---kkelgltgtlqtlkselemgedlseqdkdkfmjgkvselkn 1192
 QY 215 KL-TMLQ 220
 Db 1193 nmktllq 1199

RESULT 11
 AAW94391
 ID AAW94391 standard; Protein: 1325 AA.
 XX
 AC AAW94391;
 XX
 DT 14-APR-1999 (first entry)
 XX
 DE Mouse male enhanced antigen 2.
 XX
 KW Mouse; male enhanced antigen 2; MEA-2; Mus musculus domesticus;
 KW spermatogenesis; regulation; contraceptive; sterile; inhibition.
 XX
 OS Mus sp.
 XX
 PN JP11018622-A.
 XX
 PD 26-JAN-1999.
 XX
 PF 04-JUL-1997; 97JP-0179490.
 XX
 PR 04-JUL-1997; 97JP-0179490.
 XX
 PA (ITOH-) ITO HAM KK.
 XX
 DR WPI: 1999-160962/14.
 DR N-PSDB: AAX04132.
 XX

PT Regulation of spermatogenesis using Mea-2 gene information - using
 PT anti-sense oligo- or poly:nucleotide(s), used for production of
 PT contraceptives
 XX
 XX
 PS Claim 4; Page 8-12; 27pp; Japanese.
 XX
 CC The present sequence represents mouse male enhanced antigen 2 (Mea-2).
 CC The present invention describes the regulation of spermatogenesis by
 CC using Mea-2 information. A non-human living organism can have its
 CC spermatogenesis inhibited by breakage of the whole or part of the Mea-2
 CC gene. Also described are: (1) the creation of the spermatogenesis-
 CC inhibited organism; (2) a drug composition containing an oligonucleotide
 CC or polynucleotide containing base sequences that pair with at least part
 CC of the Mea-2 gene and are able to inhibit the expression of Mea-2 gene;
 CC and (3) the creation of an aimed gene-possessing organism using the
 CC spermatogenesis inhibited organism. The organism is useful for producing
 CC contraceptive drugs.
 CC
 XX
 SQ Sequence 1325 AA;
 Query Match 15.18; Score 161; DB 20; Length 1325;
 Best Local Similarity 23.18; Pred. No. 8.4e-05;
 Matches 57; Conservative 48; Mismatches 90; Indels 52; Gaps 7;
 QY 13 QEEENVLDREFLNKELD-----NVRALQSOKDEKRDSOYIIDTLRDLTEERNATVSVL 66
 Db 966 rehmsiletaakreadlvqnllyqavlyqrkeedrqmkqlvqalqyslekekevnsl 1025
 QY 67 QQAALGKA-----EMLCSTLKQKMKYLEOO---QDET 94
 Db 1026 kegmaaaieaghnrrhfkaatlleisevkkqlqakehlvqtlqaevedelqldqgkhsgei 1085
 QY 95 KQAGEAGRLSKMKTMTQIELLQSOLPVEEMIRDMGVGOSAVEOLAVYCVSLKREYE 154
 Db 1086 aqfqtelaearlqg-----llqkxl---deqmsqptsgqmedlkwelldqkerei 1135
 QY 155 NLKEARKASGEVADLRKDLFSSRSKLTQVYSLEDOAKLELSAOKDQSDADKEIMS LK 214
 Db 1136 slkqgldlteqg---kkelgqtqtlqtlkselemvgedisectkdfmfaqkxselkn 1192
 QY 215 KL-TMLQ 220
 Db 1193 nmktllq 1199
 RESULT 12
 AAR72826
 ID AAR72826 standard; Protein; 2482 AA.
 XX
 AC AAR72826;
 XX
 DT 27-FEB-1996 (first entry)
 XX
 DE Human mitotin.
 XX
 KW Cell cycle; M phase; mitotin; retinoblastome; mitosis; cell growth;
 inhibition.
 KW
 XX Homo sapiens.
 OS
 XX
 FH Key Location/Qualifiers
 FT Region 1480..1659
 FT /label= Internal_repeat
 FT Region 1660..1839
 FT /label= Internal_repeat
 XX
 PN WO9511309-A2.
 XX
 PD 27-APR-1995.
 XX
 PF 24-OCT-1994; 94WO-US12162.
 XX

PR 22-OCT-1993; 93US-0141239.
 XX
 PA (TEXA) UNIV TEXAS SYSTEM.
 XX
 PI Lee W, Zhu X;
 XX
 DR WPI: 1995-170229/22.
 DR N-PSDB; AAQ66851.
 XX
 PT Purified mammalian protein mitotin and agents that bind it and
 PT inhibit its action - used to promote cell growth or to inhibit cell
 PT division and/or proliferation
 XX
 PS Claim 4; Fig 8B; 61pp; English.
 XX
 CC AAR72829 is human mitotin. Mitotin is involved in the regulation of
 CC the mammalian mitotic cell cycle. Mitotin as with E2F-1 (see AAR72824)
 CC interacts with the retinoblastoma protein (the retinoblastoma tumour
 CC suppressor gene product). Mitotin is first synthesised at the G1/S
 CC boundary, it is then phosphorylated from S through M phase, and during
 CC mitosis, is closely associated with the centromeres/kinetochores at the
 CC mitotic spindle poles. Mitotin is necessary for a eukaryotic cell to
 CC enter the M phase of the mitotic cell cycle and its degradation is
 CC necessary for a cell to advance on to the next stage. Mitotin is thus
 CC useful for controlling cell growth as overexpression of mitotin prevents
 CC a cell from exiting the M phase.
 CC An anti-mitotin antibody, antibody fragment or a phosphorylated mitotin
 CC muterin (or nucleic acid encoding it) can also be used to inhibit cell
 CC division which is particularly useful for the study of the cell cycle.
 CC A further use is to control hyperproliferative cells, and so control
 CC diseases such as psoriasis and breast cancer. It can also be used to
 CC block gametogenesis of an immature gamete.
 CC
 XX
 SQ Sequence 2482 AA;
 Query Match 14.68; Score 156; DB 16; Length 2482;
 Best Local Similarity 23.68; Pred. No. 0.00047;
 Matches 57; Conservative 55; Mismatches 90; Indels 40; Gaps 7;
 QY 19 LDREFLNKELNVRALQSOKDEKRDSOYIIDTLRDLTEERNATVSVLQALGKA-EMLC 77
 Db 1571 ldylrlsekenltkqkqgqslseldklissfskllsekeqaelqkkesktavenlq 1630
 QY 78 STLRKO-----MKYLEOOD-----EFKQAGEAGRLSKMKTMTQIELLQS 120
 Db 1631 nqlkeineavaalqgdqemkateqslidpleehqnlstektltarleaekqlcyiq 1690
 QY 121 QLP-----VEEMIRDMGVGOSAVEOLAVYCVSLKREYENLKARKASGEVADK 169
 Db 1691 qlkesehnadllkgrvenleretelartngעהaaleaenskgyevetlkaklegmqslrg 1750
 QY 170 LRKDLFSSRSKLTQVYSLEDO-----AKLEL--KSAQKDQSDADKEIMS LK 218
 Db 1751 leldvrlrsekenltnelqegeriseltinsfenllqkeqekvmkksstamen 1810
 QY 219 LQ 220
 Db 1811 lq 1812

RESULT 13
 AAW23996
 ID AAW23996 standard; Protein; 2482 AA.
 XX
 AC AAW23996;
 XX
 DT 28-MAY-1998 (first entry)
 XX
 DE Human mitotin amino acid sequence.
 XX
 KW Mitotin; phosphoprotein; mitotic cell cycle; antibody; analogue;
 inhibition; M phase; antagonist; hyperproliferative cell; cancer;
 KW

KM		leukaemia; lymphoma; chromosome segregation.
XX		
OS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	Domain	258..280
FT		/note= "leucine heptad repeat"
FT	Domain	340..362
FT	Domain	564..593
FT	Domain	1387..1443
FT	Domain	1885..1962
FT	Domain	2146..2188
FT	Domain	2165..2187
FT		/note= "leucine heptad repeat"
FT	Misc-difference	2188
FT	Misc-difference	2300
FT		/label= "Bipartite targeting motif"
FT		/note= "optionally C or G"
FT	Misc-difference	2189
FT	Misc-difference	2301
FT	Misc-difference	2303
FT		/label= "Bipartite targeting motif"
FT		/note= "optionally A or T"
XX		
PN	US5710022-A.	
XX		
XD	20-JAN-1998.	
PF		
PE	24-OCT-1994;	94US-0328254.
PR	24-OCT-1994;	94US-0328254.
PR	22-OCT-1993;	93US-0141239.
XX		
PA	(TEXA) UNIV TEXAS SYSTEM.	
XX		
PI	Lee W, Zhu X;	
XX		
DR	WPI: 1998-109817/10.	
DR	N-PSSD; AAV09076.	
XX		
PT	New isolated mitotin protein and gene - useful for, e.g. developing products for therapy and diagnosis of hyper-proliferative disorders such as cancers or psoriasis	
XX		
PS	Claim 1; Column 40-52; 43pp; English.	
XX		
CC	This is the amino acid sequence for mitotin, a phosphoprotein necessary for the cell to enter mitosis. The protein's degradation is also necessary for the cell to advance into the next stages of mitosis. The mitotin protein, can be used to control the growth of cells. An anti-mitotin antibody, a mutant or a non-functional analogue of mitotin can inhibit the mitotic cell cycle by preventing the cells from entering the M phase, and over expression of mitotin or its functional equivalent, would inhibit the cycle by preventing cells from leaving the cell.	
CC	M phase. Antagonists to this protein can be used to control hyperproliferative cells in, (e.g. thyroid hyperplasia, Grave's disease, psoriasis, benign prostatic hypertrophy, Li-Fraumeni syndrome, breast cancer, sarcomas and other neoplasms, bladder cancer, colon cancer, lung cancer and various leukemias and lymphomas). Reintroduction or supplementation of lost mitotin function by introduction of the protein or nucleic acid encoding the protein into a cell can restore defective chromosome segregation, which is a marker of progressing malignancy. Malignant proliferation of cells can then be halted. The protein can also be used for the detection and diagnosis of hyperproliferative cells.	
XX		
Sequence	2482 AA:	

Query Match	14.6%;	Score 156;	DB 19;	Length 2482;
Best Local Similarity	23.6%;	Pred. No. 0.00047;		
Matches 57;	Conservative 55;	Mismatches 90;	Indels 40;	Gaps 7;

[illegible]

XX 27-SEP-2001.
PD
XX
XX
PF 23-MAR-2001; 2001WO-US09231.
XX
XX
XX 23-MAR-2000; 2000US-191637P.
PR 11-JUL-2000; 2000US-0614150.
XX
XX
PA (PEKE) PE CORP NY.
XX
PI Venter JC, Adams M, Li PWD, Myers EM;
XX
XX MPI: 2001-656860/75.
DR N-PSDB; ABL02776.
XX
XX
PT New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from Drosophila and for elucidating cell signalling and cell-cell
PT interactions -
XX
XX
PS Disclosure: SEQ ID NO 2811; 21PP + Sequence Listing: English.
XX
XX
XX The invention relates to an isolated nucleic acid detection reagent
XX capable of detecting 1000 or more genes from Drosophila. The invention is
XX useful in developmental biology and in elucidating cell signalling and
XX cell-cell interactions in higher eukaryotes for the development of
XX insecticides, therapeutics and pharmaceutical drugs. The invention
XX discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
XX sequences (ABR01840-ABR16175) and the encoded proteins
XX (ABR57737-ABR72072).
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct-sequences.
XX
XX Sequence 1456 AA;

Query Match	14.4%	Score 153.5	DB 22	Length 1456
Best Local Similarity	21.9%	Pred. No. 0.00039		
Matches	59	Conservative	53	Mismatches 93; Indels 65; Gaps 6;
OY	16	ENVLDRFLKNTLDNVNRQLSQDKDKRDSQYITDTRDPTLEERN-----	60	
DB	104	qtvgeenrltsetcltkdmdtkrkisvlgikienleellkckdnqydmaraarlsamga	163	
OY	61	-----ATVSLQQLAGRAEMLCSTLTKOMKMLEQOODETKO-----	AOE 99	
DB	164	hhssegaltsteealigdkckemaqlirgdrtaehnekgeerllherevadylkrlraes	223	
OY	100	EAGRLRSKMK-----TMEQIELL-----QSOI-----PEVEEMIDMGVGOSAVBOLAVCVS	148	
DB	224	evcklqtrleravterleikleasgelskalekcatcemgrssadwestkqrlar	283	
OY	149	LKKEENLKEARKAS-----GEVAKLKRDLSSRSKLTQTVVSELDQ	190	
DB	284	lelenelrhkhdtersqgttfgirtmttsgeqldraageradkasaelrrtqgelrvtgsdaer	343	
OY	191	AKLELKSQKDLQSDADKEIMSLKKRLTMDQ	220	
DB	344	areeaaalqekleksggevyrlkakhlenaq	373	
RESULT	19			
AC	ABB59948			
XX	ABB59948 standard; Protein; 1489 AA.			
XX	ABB59948;			
XX	26-MAR-2002 (first entry)			
DE	Drosophila melanogaster polypeptide SEQ ID NO 6636.			
KW	Drosophila; developmental biology; cell signalling; insecticide; pharmaceutical.			

OS *Drosophila melanogaster*.
PN WO200171042-A2.
PD 27-SEP-2001.
XX
PE 23-MAR-2001; 2001WO-US09231.
XX
PR 23-MAR-2000; 2000US-191637P.
PR 11-JUL-2000; 2000US-0614150.
XX
PA (PEKE) PE CORP NY.
XX
PI Venter JC, Adams M, Li PWD, Myers EW;
XX
DR WPI; 2001-6556860/75.
DR N-PSDB; ABL04051.
XX
PT New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from *Drosophila* and for elucidating cell signalling and cell-cell
PT interactions -
PI
XX
PS Disclosure; SEQ ID NO 6636; 21pp + Sequence Listing; English.
XX
XX
CC The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from *Drosophila*. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of
CC insecticides, therapeutics and pharmaceutical drugs. The invention
CC discloses genomic DNA sequences (ABL01840-ABL16175), expressed DNA
CC sequences (ABL01840-ABL16175) and the encoded proteins
CC (AEB57737-ABE72072).
CC
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pat_sequences.
XX
XX
SQ Sequence 1489 AA;

Query Match	14.3%	Score 152	DB 22	Length 1489
Best Local Similarity	26.3%	Pred. No. 0.00054		
Matches	67	Conservative 38	Mismatches 92	Indels 58
				Gaps 8

QY	13	QEEENVLDREFPKNLDNVRAQLSQDKKEDRSQVYIDTLRPDTLEERN-----A	61
		: : : : :	
DB	310	geeenlv---llagctkgaihtetelktdevtlrgkklqlesqrshnnevkefkklqga	366
		: : : : :	
QY	62	TVYSLQALGKKEMICSTLTKKQMKVLEQQODETKQAQEGAGLRSKMK-----	109
		: : : : :	
DB	367	lkqevdaklmatehllntlkcsya-lkeqgvvtlaqgleatrvneqkvkdlqkqnedrn	425
		: : : : :	
QY	110	-----TMEQIELT-----LQSLPPEVEPMRIDMGVGSAPQLAVYCVSLKKEYENLKE	158
		: : : : :	
DB	426	tgaassseqklqgaavgaesqllskqgllestlseqakseq-----qlkhlkeqglyk	479
		: : : : :	
QY	159	ARKASGEVADKTRKRLFSRS-----KLTQVYSELDQAKLE-----LKSQAOKDIQS	204
		: : : : :	
DB	480	lkqeneyldkrlrenkkssdqtnaegqgkklgaakdeaeskl1ateellhslrindyka	539
		: : : : :	
QY	205	ADKEIMSLKKKRLTML	219
		: : : : :	
DB	540	geekvallledkllktl	554
		: : : : :	

RESULT	20
ID	ABB62094
	ABB62094 standard; Protein; 1975 AA.
XX	ABB62094;
XX	
XX	26-MAR-2002 (first entry)
XX	

DE	Drosophila melanogaster polypeptide SEQ ID NO 13074.
XX	
KW	Drosophila; developmental biology; cell signalling; insecticide;
XX	pharmaceutical.
XX	
OS	Drosophila melanogaster.
PN	WO200171042-A2.
XX	
PD	27-SEP-2001.
XX	
PF	23-MAR-2001; 2001WO-US09231.
XX	
PR	23-MAR-2000; 2000US-191637P.
XX	
PR	11-JUL-2000; 2000US-0614150.
XX	
PA	(PEKE) PE CORP NY.
XX	
PI	Venter JC, Adams M, Li PWD, Myers EW;
XX	
DR	WPI: 2001-656860/75.
XX	
DR	N-PSDB; ABL06197.
XX	
PT	New isolated nucleic acid detection reagent for detecting 1000 or more
XX	genes from Drosophila and for elucidating cell signalling and cell-cell
PT	interactions -
XX	
PS	Disclosure: SEQ ID NO 13074; 21pp + Sequence Listing; English.
XX	
CC	The invention relates to an isolated nucleic acid detection reagent
XX	capable of detecting 1000 or more genes from Drosophila. The invention is
CC	useful in developmental biology and in elucidating cell signalling and
XX	cell-cell interactions in higher eukaryotes for the development of
CC	insecticides, therapeutics and pharmaceutical drugs. The invention
XX	discloses genomic DNA sequences (ABL01840-ABL16175), expressed DNA
CC	sequences (ABL01840-ABL16175) and the encoded proteins
XX	(ABB57737-ABB72072).
CC	The sequence data for this patent did not form part of the printed
XX	specification, but was obtained in electronic format directly from WIPO
CC	at ftp.wipo.int/pub/published_pt_sequences.
XX	
XX	Sequence 1975 AA;
XX	

Query Match	14.3%	Score 152	DB 22	Length 1975
Best Local Similarity	24.0%	Pred. No. 0.00077		
Matches 53	Conservative 49	Mismatches 93	Indels 26	Gaps 5

QY	24	LKNELDNVRAOLSQDKERDSQVLIIDTRDLPLEERNATVSLQALGKAEV-LCST---	79
		: : : : : : : : : : : : : : : :	
Db	1470	lqamrlnlgqeksnletdtkmklsalqaleeklkhnndcgmrlrrelaqtemglaatsee	1529
QY	80	-----LKKQMKYVLEQOODETRKQAEFGRLRSKKMTVE-----QIEILLQSQ	121
		: : : : : : : : : : : : : : : : : :	
Db	1530	ngqneerlektstqgskldnekrqjgeelakegraskielgrvamegaltrlgmalqek	1589
QY	122	LPEVEEMLRDMQVGSAVEQLAVCYCULCKEYENLKEAKAGSAGEVADKRLKDLFSSRSKL	181
Db	1590	dcslltqmaerlengnraltqljedrcalstvdqlkerlqksavsetqlrgeklqlkel	1649
QY	182	--QIVVSELDQAKLELKSQAKDLQSDADKIMSLKKKLTLMQ	220
		: : : : : : : : : : : : :	
Db	1650	seqhncsqanedklkl--vqkslqtaenckrllterldsaq	1688

RESULT	21
ABB71125	
ID	ABB71125 standard; Protein: 2067 AA.
XX	
AC	ABB71125;
XX	
DT	26-MAR-2002 (first entry)
XX	

DE Drosophila melanogaster polypeptide SEQ ID NO 40167.
XX
XX Drosophila; developmental biology; cell signalling; insecticide;
KW pharmaceutical.
XX
XX Drosophila melanogaster.
OS
PN WO200171042-A2.
XX
XX 27-SEP-2001.
PD
XX 23-MAR-2001; 2001WO-US09231.
PF
XX 23-MAR-2000; 2000US-191637P.
PR
PR 11-JUL-2000; 2000US-0614150.
XX
XX (PEKE) PE CORP NY.
PA
XX Venter JC, Adams M, Li PWD, Myers EW;
PI
XX WPI; 2001-656860/75.
DR
DR N-PSDB; ABL15228.
XX
XX
PT New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from Drosophila and for elucidating cell signalling and cell-cell
PT interactions -
XX
XX
PS Disclosure; SEQ ID NO 40167; 21pp + Sequence Listing; English.
XX
XX The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from Drosophila. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of
CC insecticides, therapeutics and pharmaceutical drugs. The invention
CC discloses genomic DNA sequences (AB101840-AB16175) and the encoded proteins
CC sequences (ABBS7737-ABBS72072).
CC (ABBS7737-ABBS72072).
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 2067 AA;

```

Query Match      14.3%  Score 152:  DB 22:      Length 2067;
Best Local Similarity 23.9%:  Pred. No. 0.00081;
Matches      62:  Conservative  49;  Mismatches  84;  Indels  64;  Gaps  9;

OY      11 LAOEENVLDPRFLNEDNDVNRAGLSOKDKER-----RDSQVILIDRLDTLE----- 57
      |||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
Db      1655 legcenkvrlraq---elsqvrgeldrrtqgeeeentcrknbqraldsimgasleaeag 1711

OY      58 -----ERNATVVSLOQALGKAEMLCSTLKKOMKYLEQOODETKQAQAEAGRLRSKM 108
      ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
Db      1712 kaearlrmkkkleadineleialdhankanaaeagknktrvgqlkdqltaleeggardda 1771

OY      109 KTMQDIEL-----LLQSLQPEVEEMIRMGVGSQSVBGLAVYCVSLKREVENLKEARKA 162
      ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
Db      1772 r---eq1giserranaalqneleesrtlllegadrgtrgaeg-----eladhaeqlnevsag 1823

OY      163 SCEVADKLRKDLDFSSRSRKLOTVYSEHDQ-----AKL--ELKSACQKD 201
      :  :  :  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
Db      1824 nasiasaarkr-----leselqtlhsdldellnaeknseekakkamvdaarladelraeqgh 1879

OY      202 LOSADKETSMLKKLTLMDQ 220
      ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
Db      1880 aqtgexkirkaleqgikelp 1898

RESULT  22
ABG03671
ID      ABG03671 standard; Protein: 463 AA.
XX

```

AC	ABG03671;
XX	
DT	13-FEB-2002 (first entry)
XX	
DE	Novel human diagnostic protein #3662.
XX	
KW	Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW	food supplement; medical imaging; diagnostic; genetic disorder.
XX	
OS	Homo sapiens.
XX	
PN	WO200175067-A2.
XX	
PD	11-OCT-2001.
XX	
PF	30-MAR-2001; 2001WO-US08631.
XX	
PR	31-MAR-2000; 2000US-0540217.
PR	23-AUG-2000; 2000US-0649167.
XX	
PA	(HYSE-) HYSEQ INC.
XX	
PI	Drmnac RT, Liu C, Tang YT;
XX	
DR	WPI: 2001-639362/73.
DR	N-PSDB: AAS67858.
XX	
PT	New isolated polynucleotide and encoded polypeptides, useful in
PT	diagnostics, forensics, gene mapping, identification of mutations
PT	responsible for genetic disorders or other traits and to assess
PT	biodiversity -
XX	
PS	Claim 20; SEQ ID NO 34030; 103pp; English.

CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG00010-ABG30377 represent novel human
CC diagnostic amino acid sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at http://wipo.int/pub/published_pct_sequences.
XX Sequence 463 AA:

Query Match	Similarity	14.2%	Score 151.5	DB 22	Length 463
Best Local	Similarity	24.7%	Pred. No. 0.00014		
Matches	61	Conservative	43	Mismatches	102
				Indels	41
				Gaps	7

Db	275	etechslkrenvllsselsqreqekelmhsqksl	etsltslslqmsrtelemvyslkqeh	334
Oy	154	ENLKARRARSGEVDNKLKKDLFFSSRSKIQTYYS	ELSDAKLELKSAQNDLDSADKEINSLK	213
Db	335	lrdssdlctlltskaengakdvkeyeqvtvlsel	--klkfemtegeqksltdelqgck	391
Oy	214	KKLTMLQ	220	
Db	392	mlklilr	398	

RESULT 23
 AAB08316
 ID AAB08316 standard; Protein; 753 AA.
 XX
 AC AAB08316;
 XX
 DT 04-DEC-2000 (first entry)
 XX
 DE A human M-phase phosphoprotein-1 polypeptide.
 XX
 KW Human; M-phase phosphoprotein-1; MPPI; mitotic cell; interphase;
 KW idiopathic ataxia; antigen; autoantibody.
 XX
 OS Homo sapiens.
 XX
 PN CA2290711-A1.
 XX
 PD 09-JUN-2000.
 XX
 PE 09-DEC-1999; 99CA-2290711.
 XX
 PR 09-DEC-1998; 98US-0111633.
 XX
 PA (UKTE-) UNIV TECHNOLOGIES INT INC.
 XX
 PI Fritzler MJ;
 XX
 DR WPI; 2000-565786/53.
 DR N-PSDB; AAA63952.
 XX
 PT Detecting presence of an antibody associated with ataxia in a
 PT biological sample for diagnosing and treating ataxia, involves
 PT contacting the sample with a peptide comprising a sequence identical to
 PT M-phase phosphoprotein-1 -
 XX
 PS Claim 35; Page 58-60; 72pp; English.
 XX
 CC The present sequence represents a human M-phase phosphoprotein-1 (MPPI)
 CC polypeptide. MPPI is strongly expressed in mitotic cells, and is
 CC synthesised during interphase of the cell cycle. A subset of idiopathic
 CC ataxia patients have autoantibodies to the antigen MPPI, and detection
 CC of these autoantibodies is useful in classifying and identifying the
 CC type of ataxia experienced by the patient. The specification describes
 CC a method for detecting the presence of autoantibodies to MPPI a
 CC biological sample from a patient diagnosed with idiopathic ataxia.
 CC The detection method is useful for diagnosing and treating ataxia.
 CC

```

50 Sequence 753 AA;

Query Match 14.2%; Score 151.5; DB 21; Length 753;
Best Local Similarity 21.3%; Pred. No. 0.00026;
Matches 50; Conservative 62; Mismatches 84; Indels 39; Gaps 6;

0Y 22 ELKELNDNVRQL-SOKD-----KEK-----RDSQVITDRLTLEERNAT----- 62
    | | : : : : | | | | | : : : | | : | : | |
Db 12 eellegqetlqaevgvykdenmrllkekehngddllkeketllqigkeelgeknvllavq 71
    | | : : : : | | | | | : : : | | : | : | |

0Y 63 ---VYSLQALGKAMLCSTLKKOMKYLEQODDETKQAQEEAGRRLSKMKKTWEQJELLQ 119
    | | : : : : | | | | | : : : | | : | : | |
Db 72 iqhvvegrtralseltqgvtycyaklkeletlctkvshakleqdllekeslilkle 131
    | | : : : : | | | | | : : : | | : | : | |

```


CC The invention relates to human nucleic acids (AA157798-AA161369) and
CC the encoded polypeptides (AAW38642-AAW42213) with nocotropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, hemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, Leukaemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.

XX Sequence 1788 AA:

Query Match 14.2%; Score 151.5; DB 22; Length 1788;
Best Local Similarity 21.3%; Pred. No. 0.00075;
Matches 50; Conservative 62; Mismatches 84; Indels 39; Gaps 6;

QY 22 EFLKNELDNVRAL-SQKD-----RK-----RDSQYIIDTLRDTLEERNAT---- 62
DB 1047 eelqeqieklaqevkygdemrlikehngddllkeelqikqikeelqeknvtldvq 1106
QY 63 ---VSLQALGKAEMLCSTLKQKMYLEQOODETKQAQEFAGRLRSKMTMEQIELLQ 119
DB 1107 lqhvvegrktralseltqyvcykakkeletlletqvershsaklegdllekesilltle 1166
QY 120 SQLPEVEEMIDMGVGSAYEOLAVYCVSLKKEYENL-----KEARKASGE 165
DB 1167 rnlkefeghld---svntndlnvkeelkkelteqltnmgdkmhlqlkeeeetrq 1223
QY 166 VADKLKRDLFSSRSKLTQTVSELDQAKLELSAQKDLQSADEKIMSLKKLTMLQ 220
DB 1224 etekikeelsasartqnlndlgkreedydllkekldakkqlkvqkvevsmv 1278

RESULT 26

AAW63043 standard; Protein: 561 AA.

XX AAW63043;

XX 26-OCT-1998 (first entry)

XX Streptococcus uberis bovine lactoferrin binding protein;

KW Bovine lactoferrin binding protein; LBP; mastitis; vaccine;

KW diagnosis.

OS Streptococcus uberis strain su-1 (ATCC 9927).

XX Key Location/Qualifiers

FT Peptide 1..51

FT /label= sig-peptide

FT /note= "alternative translation start site at

FT Met-11"

FT Protein 52..561

FT /label= mat_protein

FT Region 148..199

FT /note= "central repeated amino acid sequence A1"

FT Region 200..212

FT /note= "central repeated amino acid sequence B1"

FT Region 213..271

FT /note= "central repeated amino acid sequence C1"

FT Region 282..325

FT /note= "central repeated amino acid sequence A2"

FT Region 326..339

FT /note= "central repeated amino acid sequence B2"

FT Region 340..397
FT /note= "central repeated amino acid sequence C2"
FT Peptide 525..530
FT /note= "surface anchor motif"

PN W09821231-A2.

XX 22-MAY-1998.

XX 14-NOV-1997; 97WO-CA00867.

XX 14-NOV-1996; 96US-0031117.

XX (UYSA-) UNIV SASKATCHEWAN.

PI Jiang M, MacLachlan PR, Potter AA;

XX WPI: 1998-297860/26.

DR N-PSDB: AAV42601.

PT Immunogenic Streptococcus uberis protein(s) that bind bovine

PT lactoferrin - associated regulatory protein, useful in vaccines for

PT treatment and prevention of mastitis

XX Claim 2; Fig 2A-C; 105pp; English.

CC This is the bovine lactoferrin binding protein (LBP) of
CC Streptococcus uberis su-1. Its amino acid sequence was deduced
CC from the novel isolated lbp gene (see AAV42601). The LBP is
CC lactoferrin species-specific; human lactoferrin does not
CC effectively block binding of bovine lactoferrin. The invention
CC provides recombinant vectors, transformed host cells and methods of
CC producing recombinant bovine LBP of S. uberis. The bovine LBP,
CC immunogenic fragments and/or chimeric proteins can be used, either
CC alone or in combination with other antigens, in novel subunit
CC vaccines for the prevention and treatment of S. uberis infections,
CC particularly mastitis, as well as in diagnostic methods for
CC determining the presence of S. uberis infections.

XX Sequence 561 AA;

Query Match 14.2%; Score 151; DB 19; Length 561;
Best Local Similarity 23.1%; Pred. No. 0.0002;
Matches 53; Conservative 53; Mismatches 97; Indels 26; Gaps 7;

QY 10 DLAGEENVLDREFLNK-----FLDNVRAQLSQKQEKRSQYIITLNDTLEERNATV 63

DB 250 dasrkehealakefaesqkyekeladkhtalgaekrnadleaengkelkenlemaegis 309

QY 64 VSLQALGKAEMLCSTLKQKMYLEQOODETKQAQEFAGRLRSKMTMEQIELLQSQLP 123

DB 310 ddldqkxymkeegemkelseqleekaekelatekaleaeseakenallteerdaakkaekvp 369

QY 124 EVEE---MTRDMGVGSAYEOLAVYCVSLKKEYENLKEARKA-SGEVADKLKRD----- 173

DB 370 eleeqveklveeltkaekaeelqagaeklegkdeavkaekaealeaeta-klkedhqkev 428

QY 174 -----LFSSRSK-LQTVYSELDQAKLELSAQKDLQSADEKIMSLKKL 216

DB 429 dalnalladkexmldknldqldkakee--amknegnsqeeaklqael 474

RESULT 27

AAW21227 standard; Protein: 721 AA.

XX AAW21227;

XX 09-MAR-2001 (first entry)

DE Protein encoded by tobacco NtMFP1-1 cDNA.

KW	Tobacco	MAR-binding filament-like protein 1; MFPI.
KV	matrix attachment region; MAR; anchor protein.	
XX		
OS	Nicotiana tabacum.	
FH	Key	Location/Qualifiers
FT	Misc-difference 162	/note= "encoded by TC"
FT	Misc-difference 672	/note= "encoded by GAGATT"
FN		
PX	MO200061615-A2.	
PN		
PD	19-OCT-2000.	
PP		
PF	12-APR-2000; 2000WO-US09723.	
XX		
PR	12-APR-1999; 99US-0128900.	
PA	(DUPO) DU PONT DE NEMOURS & CO E. I.	
XX		
PI	Harder PA, Meier I;	
XX		
DR	WPI: 2000-679464/66.	
DR	N-PSTDB; AAA95801.	
XX		
PT	Nucleic acid fragments from tobacco, corn, soybean and rice, encoding proteins that are homologs to the MAR binding filament-like protein.1	
PT	(MFPI), useful for development of novel phenotypes -	
XX		
XX	Claim 4; Page 45-47; 62pp; English.	
XX		
CC	The present sequence is encoded by NMFP1-1 cDNA from tobacco. It is	
CC	a homologue of the matrix attachment region (MAR) binding	
CC	filament-like protein 1 (MFPI) from tomato. MFPI has features of a	
CC	novel anchor protein that most likely connects chromatin via MAR DNA with	
CC	the nuclear envelope and nuclear filament proteins. MFPI nucleic acids	
CC	and proteins may be used to better understand the mechanisms underlying	
CC	this process so that the attachment of transgenes to the nuclear matrix	
CC	may be used routinely to improve gene expression. They may be used to	
CC	study MFPI expression, leading to the creation of novel developmental	
CC	phenotypes that may be beneficial for crop growth and development. In	
CC	addition, if the reduction in expression of one of the genes leads to a	
CC	growth or developmental defect in the plant, this gene can be used as a	
CC	novel herbicide target.	
XX		
SQ	Sequence 721 AA;	
	Query Match 14.2%; Score 151; DB 21; Length 721;	
	Best Local Similarity 23.1%; Pred. No. 0.00027;	
	Matches 55; Conservative 46; Mismatches 99; Indels 38; Gaps 6;	
OY	5 NKLFFDLQAEEENVADREFLKNELDNVRQLSQKREKRDSQVIIDTLRDTEERNATVV 64	
Db	400 nvlidldlqeknl--rrmldaelnI-----sklklevy---tgetleksrdsas 446	
OY	65 SIQAALGKAEMCSTFLKKOMKYLEOODETK-----QAQEAGRLSKMKKTDEQJL 116	
Db	447 diaagqlqgsrhlcslkaeevsklmeleetrslrrnidetkrgeallaaeltltre--- 503	
OY	117 LIQSGLPEVEENIRMDQGSAVEQLAVYCYSLKREYNLEPKARRASGEVDLKRKDLF- 175	
Db	504 llktneemhtmslaavtenchdlqtelvdykkaeraadelkgekniivltlekelf 563	
OY	176 -----SSRSKIQTIVSELDQAKLELSAQNDLGASDAEFIMSLKKRTLMQ 220	
Db	564 leaqitrekeshknleeeleteratesldemnrafalakelanshlsslederevlg 621	
RESULT 28		
AAM78520		
ID AAM78520 standard; Protein; 990 AA.		

XX	AAM78520;
AC	
XX	
DT	06-NOV-2001 (first entry)
XX	
DE	Human protein SEQ ID NO 1182.
XX	
KW	Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW	vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW	tissue growth factor; immunomodulatory; cancer; leukaemia;
KW	nervous system disorder; arthritis; inflammation.
XX	
OS	Homo sapiens.
XX	
PN	WO200157190-A2.
XX	
PD	09-AUG-2001.
XX	
PF	05-FEB-2001; 2001WO-USO4098.
XX	
PR	03-FEB-2000; 2000US-0496914.
PR	27-APR-2000; 2000US-0560875.
PR	20-JUN-2000; 2000US-0598075.
PR	19-JUL-2000; 2000US-0620325.
PR	01-SEP-2000; 2000US-0654936.
PR	15-SEP-2000; 2000US-0663561.
PR	20-OCT-2000; 2000US-0693325.
PR	30-NOV-2000; 2000US-0728422.
XX	
PA	(HXSE-) HXSEQ INC.
XX	
PI	Tang YF, Liu C, Dymnac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;
PJ	Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
PI	Xue AJ, Yang Y, Wehrman T, Goodrich R;
XX	
DR	WPI: 2001-476283/51.
DR	N-PSDB; AAK51653.
XX	
PT	Nucleic acids encoding polypeptides with cytokine-like activities,
PT	useful in diagnosis and gene therapy -
XX	
PS	Claim 20; Page 3425-3427; 6221pp; English.
XX	
CC	The invention relates to polynucleotides (AAK51456-AAK53435) and the
CC	encoded polypeptides (AAM78323-AAK80302) that exhibit activity elating to
CC	cytokine, cell proliferation or cell differentiation or which may induce
CC	production of other cytokines in other cell populations. The
CC	polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC	peptide therapy. The polypeptides have various cytokine-like activities,
CC	e.g. stem cell growth factor activity, haematopoiesis regulating
CC	activity, tissue growth factor activity, immunomodulatory activity and
CC	activity/inhibit activity and may be useful in the diagnosis and/or
CC	treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC	inflammation.
CC	Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
CC	(AAM80020) are omitted as the relevant pages from the sequence listing
CC	were missing at the time of publication.
XX	
SQ	Sequence 990 AA:
Query Match	14.1%; Score 150; DB 22; Length 990;
Best Local Similarity	24.6%; Pred. No. 0.00048;
Matches 60; Conservative 49; Mismatches 95; Indels 40; Gaps 8;	
OY	13 GEENVLDREFLNELNDVRAQLSOKDKERDSQ--VIITDLRTLEERNATVSLQA 69 : Db 713 enkelesekqkkgjellkasfkfkrlevyggldienqrllgktlenskigglese 772
OY	70 LGAAMLCSLTKKKM-----KYIEQQODDFRKQAQAEFGGRURSKMKMTMEQLEILLLOSL 122 : Db 773 lqdlamengrltqnneelkltskrrlgelkenkslegetsqllekdkkqlckenkrlrqqa 832

```

OY 123 PEVEEMIRPMGV-----GGSAYEQLAVY---CVSLKK-EYENLKEKRAKSGEYAD-- 168
Db 833 eikdtlleemvkhignlekenktlskei9iykesvrlkelekenkelykraticidiktiv 892
OY 169 KLKRLDLFFSSRSKLTQRYVSELDQAKLELKS-----AKRLQASAD-----KEIMSL 212
Db 893 tlredlvseklktgtgmnmndlektlthel9iktlnkerlIndegstddsrYkllskiestrl 952
OY 213 KKKL 216
Db 953 kksl 956

RESULT 29
AA15457
ID AA15457 standard; Protein; 1761 AA.
XX
AC AA15457;
XX
DT 26-JUL-1999 (first entry)
XX
DE Human laminin beta 4 protein.
XX
KW Laminin 12; alpha 2; beta 1; gamma 3; subunit; nerve regeneration;
KW connective tissue adhesion; tissue repair; wound; nerve growth;
KW laminin beta 4.
XX
OS Homo sapiens.
XX
PN MO9919348-A1.
XX
PD 22-APR-1999.
XX
PF 08-OCT-1998; 98WO-US21391.
XX
PR 10-OCT-1997; 97US-0061609.
XX
PA (GEHO ) GEN HOSPITAL CORP.
XX
PI Brunken W, Burgesson RE, Champilaud M, Koch M, Olson P;
XX
DR WPI; 1999-326542/27.
XX
DR N-PSDB; AAX59765.
XX
PT Purified laminin 12 useful for promoting tissue repair and promoting
PT nerve growth
XX
PS Disclosure; Page 59-64; 86pp; English.
XX
CC The specification describes laminin 12 which includes an alpha 2, beta 1
CC and gamma 3 subunit. Laminin is a connective tissue adhesion molecule.
CC Laminin is useful for promoting tissue repair due to wounds
CC and to promote nerve growth or regeneration. The present sequence
CC represents human laminin beta 4.
XX
SO Sequence 1761 AA;

Query Match 14.0%; Score 149.5; DB 20; Length 1761;
Best Local Similarity 23.8%; Pred. No. 0.0011;
Matches 61; Conservative 49; Mismatches 99; Indels 47; Gaps

OY 12 AQEENNV--LDREF--LKNELDNVRAQL-----SQRDEKRDSQYI 48
Db 1422 ageakstlrnldkqyrglknqdesiseqaevskmaqlqreklgnltngsdsdeenlnlf 1481
OY 49 IDTLRDLTEERNATVVSLSQALG-----KAEMLCSTLKKQMKYI---EQQODETK 95
Db 1482 lkkvknflleenvpediekvanyldihlplpsqnltdel9kikghmgjcedyrtde9r 1541
OY 96 QAQEAEG--RLRSKKKMTMQ---ELLQSQLPVEYEMIRMDMGVQGSAYEQALAVYCVSLK 150
Db 1542 sneeddgqkllvkaekaaeanilnldkltlnqlqgaqitgranstltqlltanlkkik 1601

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Oy	151	K-EYENLKEARRASGEVAK---LRKDDPSSRSKLTQYVSELDQKLEKSNOKRLOS	204
Db	1602	knvigaqeqtrekmkseleiaqrgslgedglsliqtiklgrnqdhavnakvgaesqbnqags	1661
Oy	205	ADKEIMSLKKRLTLMQ	220
Db	1662	leketvelkkqyalq	1677
RESULT	30		
AAB29659			
ID	AAB29659	standard; Protein: 359 AA.	
AC	AAB29659:		
XX			
DT	23-FEB-2001	(first entry)	
XX			
DE		Human membrane-associated protein HUMAP-16.	
XX			
KW		Human membrane-associated protein; HUMAP; transgenic organism;	
KW		drug screening; cell signalling modulator; agonist; antagonist;	
KW		cell differentiation modulator; cell proliferation modulator;	
KW		cell proliferative disorder; cancer; cell differentiation disorder;	
KW		developmental disorder; cell signalling disorders; endocrine disorder;	
KW		hyperplasticism; hypothyroidism; hyperparathyroidism; infection;	
KW		pancreatic disorder; diabetes mellitus; immunological disorder;	
KW		hereditary neuropathy; gonadal steroid hormone associated disorder;	
KW		infertility.	
OS		Homo sapiens.	
XX			
PN	WO200065054-A2.		
PD	02-NOV-2000.		
XX			
PF	20-APR-2000; 2000WO-US10884.		
XX			
PR	23-APR-1999; 99US-0130694.		
PR	23-JUN-1999; 99US-0140580.		
XX			
PA	(INCYTE) INCYTE GENOMICS INC.		
PI	Hillman JL, Bandman O, Tang YT, Lal P, Yue H, Reddy R, Azimzal Y;		
PI	Baughn MR;		
XX			
DR	MP: 2000-687346/67.		
XX			
DR	N-PSDB: AAC64289.		
XX			
PT		Human membrane-associated protein, useful for diagnosis and treatment	
PT		of cell signaling, cell differentiation and cell proliferation	
PT		disorders such as cancer, and for identifying agonists and antagonists	
XX			
XX			
PS	Claim 1; Page 86-87; 99pp: English.		
XX			
CC		The invention relates to 17 human membrane-associated proteins,	
CC		HUMAP-1 to HUMAP-17 (AAB29644-B29660) and the cDNAs encoding them	
CC		(AAC64274-C64290). The invention also relates to expression constructs,	
CC		host cells and transgenic organisms comprising a HUMAP nucleic acid	
CC		sequence; the recombinant preparation of a HUMAP; methods of screening	
CC		compounds for their ability to modulate HUMAP activity or expression;	
CC		and pharmaceutical compositions comprising a HUMAP protein, a HUMAP	
CC		agonist or HUMAP antagonist. The HUMAPs acts as modulators of cell	
CC		signalling, differentiation and proliferation. A HUMAP is useful for	
CC		screening a compound for effectiveness as an agonist or antagonist of	
CC		HUMAP activity. The protein, or the identified agonist or antagonist is	
CC		useful for treating a disease or condition associated with decreased or	
CC		increased expression of functional HUMAP. A HUMAP nucleic acid is useful	
CC		for screening a compound for its ability to alter expression of that	
CC		particular HUMAP gene. A wide variety of disease may be treated using	
CC		compositions of the invention. These diseases include cell proliferative	
CC		disorders (e.g., actinic keratosis, arteriosclerosis); cancer (e.g.,	


```

XX Human protein SEQ ID NO 3510.
DE
XX
XX Human: cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; hematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; Leukaemia;
KW nervous system disorder; arthritis; inflammation.
OS
XX Homo sapiens.
XX
XX MO200157190-A2.
XX
XX 09-AUG-2001.
XX
XX 05-FEB-2001; 2001WO-US04098.
XX
XX 03-FEB-2000; 2000US-0496914.
XX 27-APR-2000; 2000US-0360875.
XX 20-JUN-2000; 2000US-0598075.
XX 19-JUL-2000; 2000US-0620325.
XX 01-SEP-2000; 2000US-0654936.
XX 15-SEP-2000; 2000US-0663561.
XX 20-OCT-2000; 2000US-0693325.
XX 30-NOV-2000; 2000US-0728422.
XX
XX (HYSE-) HYSEQ INC.
XX
XX Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;
PI Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
PI Xue AJ, Yang Y, Wejhtman T, Goodrich R;
XX
XX WPI: 2001-476283/51.
XX N-PSDB: AAK52997.
XX
XX Nucleic acids encoding polypeptides with cytokine-like activities,
PT useful in diagnosis and gene therapy -
XX
XX Claim 20: Page 365-366; 6221pp; English.
XX
XX The invention relates to polynucleotides (AAK51456-AAK53435) and the
CC encoded polypeptides (AAK78323-AAK80302) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, hematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.
CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
CC (AAK80020) are omitted as the relevant pages from the sequence listing
CC were missing at the time of publication.
XX
XX Sequence 979 AA:
SQ

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OY 112 ----EQIELLLQSLPEVEEMIRDMGVQSAVEQLAVVCSLKKEYENLKARKASGEVA 167
DE :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
XX :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
DB 620 vkrcqqlstqtsenkkneenekeiaacqlrlsqheqkksaltleylqnvqekkrqleesv 679
OY 168 DKLRKDLFSSR-----SKLOTVYSELDQA-----KLEKSAQKDLQASADKEI 209
DE :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
DB 680 dalseelvgllragekvhemekehlnkvgtanvkqavegqigshrethqgqisalsrdev 738
OY 210 MSKKKLTMLQ 220
DE :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
DB 739 eakakliltidq 749

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RESULT 33

ABB59344

ID ABB59344 standard; Protein: 2056 AA.

XX

AC ABB59344;

XX

DT 26-MAR-2002 (first entry)

XX

DE Drosophila melanogaster polypeptide SEQ ID NO 4824.

XX

KW Drosophila; developmental biology; cell signalling; insecticide;

KW pharmaceutical.

XX

OS Drosophila melanogaster.

XX

XX MO200171042-A2.

XX

PD 27-SEP-2001.

XX

PF 23-MAR-2001; 2001WO-US09231.

XX

PR 23-MAR-2000; 2000US-191637P.

XX

PR 11-JUL-2000; 2000US-0614150.

XX

PA (PEKE) PE CORP NY.

XX

PI Venter JC, Adams M, Li PWD, Myers EW;

XX

DR WPI: 2001-656860/75.

XX

DR N-PSDB: ABL03447.

XX

XX New isolated nucleic acid detection reagent for detecting 1000 or more

PT genes from Drosophila and for elucidating cell signalling and cell-cell

PT interactions -

XX

PS Disclosure; SEQ ID NO 4824; 21pp + Sequence Listing; English.

XX

CC The invention relates to an isolated nucleic acid detection reagent

CC capable of detecting 1000 or more genes from Drosophila. The invention is

CC useful in developmental biology and in elucidating cell signalling and

CC cell-cell interactions in higher eukaryotes for the development of

CC insecticides, therapeutics and pharmaceutical drugs. The invention

CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA

CC sequences (ABL01840-ABL16175) and the encoded proteins

CC (ABB57737-ABB72072).

CC

CC The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format directly from WIPO

CC at ftp.wipo.int/pub/published_pct_sequences.

XX

XX Sequence 2056 AA:

SQ

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Query Match 13.8%; Score 147.5; DB 22; Length 2056;
Best Local Similarity 23.7%; Pred. No. 0.0019;
Matches 57; Conservative 49; Mismatches 102; Indels 33; Gaps 7;

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OY 1 RTIINKLFLPDLAEEENVLDREFLKNELDNVRAGLSQKDKKR--DSQVY-----ID 50
DE :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:| :|:|
DB 1302 ktvleakagylaeenad-----latelrsvnsrgerndrrrkqaeqiaelqyvlaele 1355

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XX Example 4: SEQ ID NO 2242; 10078bp; English.
PS The invention relates to human nucleic acids (AA157798-AA161369) and
XX the encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.
XX
XX Sequence 2663 AA;
SQ
Query Match 13.8%; Score 147.5; DB 22; Length 2663;
Best Local Similarity 25.1%; Pred. No. 0.0026;
Matches 57; Conservative 48; Mismatches 91; Indels 31; Gaps 9;
OY 13 QEEENVLDREFLNELDNVRAQLSOKDEK-RDSQVIIDTLRDTLEERNATVVSLOQALG 71
DB 1658 etqekmceiehlkeqfegqklnlenietenirliqi---lhenleemr-svtkerddlr 1692
OY 72 KAEMLCSTLKRQMKRYLEQOODET---KQAGEAG---RLRSKMKTMEOIELLQSOPL 123
DB 1693 sve---etlkverdqklnetlrdlekegelkivmhkheqetldkigrivsekt 1749
OY 124 EVEEMIRDMGVGQSAV-----EQLAVYCVSLKKEVENLKEARKASGEVADKL---RK 172
DB 1750 eismmqkdlensndalkaqdlikigaelrlahmhkheqetldkigrivsektklismmqk 1809
OY 173 DLFSSRSKLTQVYSELDAQLELSAOKDLSADK---EIMSLKKKL 216
DB 1810 dlensnalkigekigekanehqlitlkdvnetqkxvsemeglikkqi 1856
RESULT 36
AAM40883
ID AAM40883 standard; Protein: 2688 AA.
XX
XX AAM40883;
AC
XX
XX 22-OCT-2001 (first entry)
DT
XX
XX Human polypeptide SEQ ID NO 5814.
DE
XX
XX Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
KW peripheral nervous system; neuropathy; central nervous system; CNS;
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
KW leukaemia.
XX
XX Homo sapiens.
OS
XX
XX WO200153312-A1.
PN
XX
XX 26-JUL-2001.
PD
XX
XX 26-DEC-2000; 2000MO-US34263.
PF
XX
XX 21-JAN-2000; 2000US-0488725.
PR
XX 25-APR-2000; 2000US-0552317.
PR 09-JUL-2000; 2000US-0598042.
PR 19-JUL-2000; 2000US-0620312.

PR 03-AUG-2000; 2000US-0653450.
PR 14-SEP-2000; 2000US-0662191.
PR 19-OCT-2000; 2000US-0693036.
PR 29-NOV-2000; 2000US-0727344.
XX
XX (HYSE-) HYSEO INC.
PA
XX
XX Tang YF, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
PI Zhao QH, Zhou P, Goodrich R, Drmanac RT;
XX
XX WPI: 2001-442253/47.
DR
XX N-PSDB: AA160039.
PT
XX Novel nucleic acids and polypeptides, useful for treating disorders
XX such as central nervous system injuries -
XX
XX Example 2: SEQ ID NO 5814; 10078bp; English.
PS
XX
XX The invention relates to human nucleic acids (AA157798-AA161369) and
XX the encoded polypeptides (AAM38642-AAM42213) with nootropic,
XX immunosuppressant and cytostatic activity. The polynucleotides are useful
XX in gene therapy. A composition containing a polypeptide or polynucleotide
XX of the invention may be used to treat diseases of the peripheral nervous
XX system, such as peripheral nervous injuries, peripheral neuropathy and
XX localised neuropathies and central nervous system diseases, such as
XX Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
XX lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
XX utilisation of the activities such as: Immune system suppression,
XX Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
XX and thrombolytic activity, cancer diagnosis and therapy, drug screening,
XX assays for receptor activity, arthritis and inflammation, leukemias and
XX C.N.S disorders.
XX Note: The sequence data for this patent did not form part of the printed
XX specification.
XX
XX Sequence 2688 AA;
SQ
Query Match 13.8%; Score 147.5; DB 22; Length 2688;
Best Local Similarity 25.1%; Pred. No. 0.0027;
Matches 57; Conservative 48; Mismatches 91; Indels 31; Gaps 9;
OY 13 QEEENVLDREFLNELDNVRAQLSOKDEK-RDSQVIIDTLRDTLEERNATVVSLOQALG 71
DB 1662 etqekmceiehlkeqfegqklnlenietenirliqi---lhenleemr-svtkerddlr 1716
OY 72 KAEMLCSTLKRQMKRYLEQOODET---KQAGEAG---RLRSKMKTMEOIELLQSOPL 123
DB 1717 sve---etlkverdqklnetlrdlekegelkivmhkheqetldkigrivsekt 1773
OY 124 EVEEMIRDMGVGQSAV-----EQLAVYCVSLKKEVENLKEARKASGEVADKL---RK 172
DB 1774 eismmqkdlensndalkaqdlikigaelrlahmhkheqetldkigrivsektklismmqk 1833
OY 173 DLFSSRSKLTQVYSELDAQLELSAOKDLSADK---EIMSLKKKL 216
DB 1834 dlensnalkigekigekanehqlitlkdvnetqkxvsemeglikkqi 1880
RESULT 37
AAG46982
ID AAG46982 standard; Protein: 746 AA.
XX
XX AAG46982;
AC
XX
XX 18-OCT-2000 (first entry)
DT
XX
XX Arabidopsis thaliana protein fragment SEQ ID NO: 59165.
DE
XX
XX Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.

XX Arabidopsis thaliana.
OS
XX
PN EPI033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 23-APR-1999; 99US-0130891.
PR 28-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.

PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0143542.
PR 13-JUL-1999; 99US-0143547.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144684.
PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145085.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 03-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150864.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151338.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.

PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
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Query Match 13.7%; Score 146; DB 21; Length 746;

Best Local Similarity 25.4%; Pred. No. 0.00072;

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RESULT 38
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AC AAG46981;
XX 18-OCT-2000 (first entry)
DT Arabidopsis thaliana protein fragment SEQ ID NO: 59164.
XX Arabidopsis thaliana protein fragment SEQ ID NO: 59164.
DE Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
OS Arabidopsis thaliana.
XX EP1033405-A2.
XX PD 06-SEP-2000.
PF 25-FEB-2000; 2000EP-0301439.
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PR 29-OCT-1999; 99US-0162142.

Query Match 13.7%; Score 146; DB 21; Length 788;
Best Local Similarity 25.4%; Pred. No. 0.00078;
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QY 93 -ETKQAOEAGRLRSKMTMEQIELLQSOQLPEVEENIRDMGVG-----OSAVBOLA 143
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Db 351 gelahlksekeketweascdalisklaleasnylgaeelevakmrsglqsgsmmgfqi 410

CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG0010-ABG0377 represent novel human
CC diagnostic amino acid sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

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SQ Sequence 1851 AA;

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DB 1206 kfine--gervrteladkvtklqveldnvpqllsqdskskltckdfsalessqlqdtqel 1262
QY 185 YSELDQAKLELKSQKDLQASADKEIM-SLKKKLTML 219
DB 1263 lqeenrqklstklkqleeeeaakhnlekqiatl 1298

Search completed: September 4, 2002, 16:09:10
Job time: 8134 sec

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